FEDERAL®

WORLD-CLASS • WORLDWIDE

PREMIUM AMMUNITION

1989

Federal Premium Safari™ Rifle Cartridges

Here's a piece of good news for the well-traveled hunter. Now, high performance Premium rifle cartridges have become available in the popular larger calibers for dangerous game.

As you'd expect, our Premium Safari ammunition includes a choice of either top-quality soft point or solid bullets in each dangerous game caliber. So whether you're after cape buffalo, lion or bear, we've got a bullet that'll both satisfy your personal preference and get the job done.

Some of the smaller calibers in the Premium Safari line are more suited for the non-dangerous African game, as well as most all large North American game. For example, our 300 Win. Magnum with its 180 grain Nosler Partition bullet is equally effective on Eland and Impala as it is on Elk and Moose.

The African Safari. Before the turn of the century, Dutch colonists in South Africa—known as Boers—and officers from the British Raj on leave from their posts in India, began to hunt dangerous African game.

One of the most famous books on the subject, *Portraits of the Game and Wild Animals of Southern Africa* by William Harris, described the harrowing hunts by an officer of the British Raj. The book was so enthralling that it led many foreign hunters to the African continent.

Today, adventurous hunters from around the world still seek the challenge of Africa's dangerous game. Bagging the Big Five—Elephant, Lion, Leopard, Rhino and Cape Buffalo—is still considered the ultimate achievement among big game hunters.

Suggested Premium Safari Loads for the Big 5:

Elephant	Lion	Leopard	Rhino	Cape Buffalo
375 Solid	375 Soft Point	338 Soft Point	375 Solid	375 Solid or Soft Point
458 Solid	458 Soft Point	375 Soft Point	458 Solid	458 Solid or Soft Point
416 Solid	416 Soft Point	458 Soft Point	416 Solid	416 Solid or Soft Point
470 Solid	470 Soft Point	416 Soft Point	470 Solid	470 Solid or Soft Point
		470 Soft Point		

Cape Buffalo Facts. When wounded, the cape buffalo may be the world's most dangerous animal. More big game hunters have lost their lives to buffaloes than any other African game.

Ranchers are not fond of seeing cape buffalo on their grazing land. A single buffalo consumes almost a ton of grass per month.

Premium Safari Rifle Ballistics (Approximate)

Usage Key: [3]=Large, heavy game [4]=Dangerous game

Usage	Federal Load No.	Caliber	Bullet Wgt. in Grains	Bullet Wgt. in Grams	Bullet Style	Factory Primer No.	Velocity in Feet Per Second (to Nearest 10 Feet) Muzzle	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	Energy in Foot/Pounds (to Nearest 5 Foot/Pounds) Muzzle	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.
[3] NEW	P300WD2	300 Win. Magnum	180	11.66	Nosler Partition	215	2960	2750	2540	2340	2160	1980	3500	3010	2580	2195	1860	1565
[3] NEW	P338A2	338 Win. Magnum	210	13.60	Nosler Partition	215	2830	2590	2370	2150	1940	1750	3735	3130	2610	2155	1760	1435
[3] NEW	P338B2	338 Win. Magnum	250	16.20	Nosler Partition	215	2660	2400	2150	1910	1690	1500	3925	3185	2555	2025	1590	1245
[3] NEW	P375C	375 H & H Magnum	250	16.20	Boat-tail SP	215	2670	2450	2240	2040	1850	1680	3955	3335	2790	2315	1905	1565
[4] NEW	P375D	375 H & H Magnum	300	19.44	Solid	215	2530	2170	1840	1550	1310	1140	4265	3140	2260	1605	1140	860
[4] NEW	P375E	375 H & H Magnum	300	19.44	Boat-tail SP	215	2530	2380	2240	2100	1960	1830	4265	3775	3330	2925	2560	2235
[3] NEW	P458A	458 Win. Magnum	350	22.68	Soft Point	215	2470	1990	1570	1250	1060	950	4740	3065	1915	1205	870	705
[4] NEW	P458B	458 Win. Magnum	510	33.04	Soft Point	215	2090	1820	1570	1360	1190	1080	4945	3730	2790	2080	1605	1320
[4] NEW	P458C	458 Win. Magnum	500	32.40	Solid	215	2090	1870	1670	1480	1320	1190	4850	3880	3085	2440	1945	1585
[4] NEW	P416A	416 Rigby	410	26.57	Soft Point	215	2370	2110	1870	1640	1440	1280	5115	4050	3165	2455	1895	1485
[4] NEW	P416B	416 Rigby	410	26.57	Solid	215	2370	2110	1870	1640	1440	1280	5115	4050	3165	2455	1895	1485
[4] NEW	P470A	470 Nitro Express	500	32.40	Soft Point	215	2150	1890	1650	1440	1270	1140	5130	3965	3040	2310	1790	1435
[4] NEW	P470B	470 Nitro Express	500	32.40	Solid	215	2150	1890	1650	1440	1270	1140	5130	3965	3040	2310	1790	1435

Wind Drift in Inches 10 mph Crosswind 100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	Height of Bullet Trajectory in Inches Above or Below Line of Sight if Zeroed at ⊕ Yards. Sights 1.5 Inches Above Bore Line. Average Range 50 yds.	100 yds.	Long Range 200 yds.	300 yds.	50 yds.	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	Test Barrel Length Inches	Federal Load No.
0.7	2.8	6.6	12.3	20.0	−0.2	⊕	− 3.1	−11.7	+0.6	+1.6	⊕	− 7.0	−20.3	−41.1	24	P300WD2
0.8	3.5	8.3	15.4	25.4	−0.2	⊕	− 3.7	−13.6	+0.8	+1.8	⊕	− 8.1	−23.7	− 48.6	24	P338A2
1.1	4.5	10.8	20.3	33.6	+0.2	⊕	− 3.7	−13.6	+0.8	+1.8	⊕	− 8.1	−23.7	− 48.6	24	P338B2
0.9	3.6	8.5	15.9	26.1	+0.4	⊕	− 5.3	−17.6	+1.7	+2.7	⊕	− 9.6	−27.6	− 55.6	24	P375C
1.7	7.2	17.6	33.9	56.5	⊕	−1.1	− 9.1	−27.5	+0.5	⊕	−7.0	−24.2	−55.8	−106.5	24	P375D
0.6	2.7	6.2	11.3	18.3	⊕	−0.9	− 7.5	−21.1	+0.5	⊕	−5.6	−18.3	−38.8	− 68.4	24	P375E
2.5	11.0	27.6	52.6	83.9	⊕	−1.5	−11.0	−34.9	+0.1	⊕	−7.5	−29.1	−71.1	−138.0	24	P458A
1.9	7.9	18.9	35.3	56.8	⊕	−1.8	−13.7	−39.7	+0.4	⊕	−9.1	−32.3	−73.9	−138.0	24	P458B
1.5	6.1	14.5	26.9	43.7	⊕	−1.7	−12.9	−36.7	+0.4	⊕	−8.5	−29.5	−66.2	−122.0	24	P458C
1.3	5.7	13.6	25.6	42.3	⊕	−1.2	− 9.8	−28.5	+0.6	⊕	−7.4	−24.8	−55.0	−101.6	24	P416A
1.3	5.7	13.6	25.6	42.3	⊕	−1.2	− 9.8	−28.5	+0.6	⊕	−7.4	−24.8	−55.0	−101.6	24	P416B
1.6	7.0	16.6	31.1	50.6	⊕	−1.6	−12.6	−36.2	+0.8	⊕	−9.3	−31.3	−69.7	−128.6	24	P470A
1.6	7.0	16.6	31.1	50.6	⊕	−1.6	−12.6	−36.2	+0.8	⊕	−9.3	−31.3	−69.7	−128.6	24	P470B

These trajectory tables were calculated by computer using the best available data for each load. Trajectories are representative of the nominal behavior of each load at standard conditions (59°F temperature; barometric pressure of 29.53 inches; altitude at sea level). Shooters are cautioned that actual trajectories may differ due to variations in altitude, atmospheric conditions, guns, sights, and ammunition.

FEDERAL
SPECIAL HIGH PERFORMANCE AMMUNITION
CARTRIDGE CARRIER FOR POCKET OR BELT
Premium™
20 CENTER FIRE RIFLE CARTRIDGES
WARNING KEEP OUT OF REACH OF CHILDREN

Federal Premium Rifle Cartridges

From Alaska to Zambia, antelope to zebra, experienced hunters prefer the proven performance of Premium rifle cartridges. They know the difference boat-tail and partition bullets can make. Nothing stops game as quickly or cleanly. Absolutely nothing.

So we use only boat-tail and partition bullets in our Premium cartridges. And that's why Premium is the best selling high performance ammunition in the world. It simply works better in the field.

Elk Facts. Elk, or Wapiti, are known for their bugling during the rut. Their call is often imitated by hunters to attract nearby elk.

An exceptional bull elk may keep a harem of 50 or more cows.

The elk is the only member of the deer family in North America that has a pair of canine teeth. Located in the upper jaw, these teeth are known as "whistlers", "buglers", or "tusks".

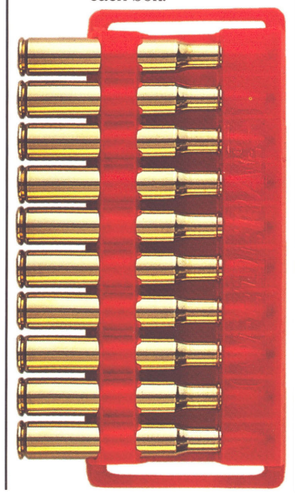
Sierra Boat-tail. Designed for superior long-range performance, the Sierra Boat-tail bullet features a streamlined, tapered base that greatly reduces drag. That gives the bullet a flatter trajectory, so there's less drop and less drift—which gives you greater effectiveness at long ranges.

But the advantages go beyond improved accuracy. By reducing drag, the Sierra Boat-tail is able to retain a higher velocity and thus deliver more striking energy. So it's more accurate *and* more deadly for long-range shooting.

Nosler Partition. If you want to stop big game, the Nosler Partition bullet was designed for the task. The secret of its incredible stopping power is the unique jacket design.

As the cross-sectional photo shows, the Nosler Partition's jacket features two cores separated by a partition of solid metal. The walls of the nose core are tapered thin to allow rapid expansion on impact. The metal partition keeps the rear core intact, so its full weight drives the expanded mushroom ahead of it for deep penetration. Ingenious . . . and deadly.

As if Premium cartridges weren't enough on their own merits, we also include 2 of our plastic Cartridge Carriers™ for your belt or pocket in each box.



Premium Rifle Sierra Boat-tail Bullet Ballistics (Approximate)

Usage Key: [1]=Varmints, predators, small game [2]=Medium game [3]=Large heavy game

Usage	Federal Load No.	Caliber	Bullet Wgt. in Grains	Bullet Wgt. in Grams	Bullet Style	Factory Primer No.	Velocity in Feet Per Second (to Nearest 10 Feet) Muzzle	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	Energy in Foot/Pounds (to Nearest 5 Foot/Pounds) Muzzle	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	Wind Drift in Inches 10 mph Crosswind 100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	Height of Bullet Trajectory in Inches Above or Below Line of Sight if Zeroed at ⊕ Yards. Sights 1.5 Inches Above Bore Line. Average Range 50 yds.	100 yds.	200 yds.	Long Range 300 yds.	50 yds.	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	Test Barrel Length Inches	Federal Load No.
[1] NEW	P223E	223 Rem. (5.56x45mm)	55	3.56	Boat-tail H.P.	205	3240	2770	2340	1950	1610	1330	1280	935	670	465	315	215	1.3	5.8	14.2	27.7	47.6	−0.3	⊕	−2.7	−10.8	+0.4	+1.4	⊕	−6.7	−20.5	−43.4	24	P223E
[1]	P22250B	22-250 Rem.	55	3.56	Boat-tail H.P.	210	3680	3280	2920	2590	2280	1990	1655	1315	1040	815	630	480	0.8	3.6	8.4	15.8	26.3	−0.4	⊕	−1.7	− 7.6	0	+0.9	⊕	−5.0	−15.1	−32.0	24	P22250B
[2]	P243C	243 Win. (6.16x51mm)	100	6.48	Boat-tail S.P.	210	2960	2760	2570	2380	2210	2040	1950	1690	1460	1260	1080	925	0.6	2.6	6.1	11.3	18.4	−0.2	⊕	−0.9	− 3.1	+0.6	+1.5	⊕	−6.8	−19.8	−39.9	24	P243C
[1]	P243D	243 Win. (6.16x51mm)	85	5.50	Boat-tail H.P.	210	3320	3070	2830	2600	2380	2180	2080	1770	1510	1280	1070	890	0.7	2.7	6.3	11.6	18.8	−0.3	⊕	−2.2	− 8.8	+0.2	+1.1	⊕	−5.5	−16.1	−32.8	24	P243D
[2]	P2506C	25-06 Rem.	117	7.58	Boat-tail S.P.	210	2990	2770	2570	2370	2190	2000	2320	2000	1715	1465	1240	1045	0.7	2.8	6.5	12.0	19.6	−0.2	⊕	−3.0	−11.4	+0.5	+1.5	⊕	−6.8	−19.9	−40.4	24	P2506C
[2]	P270C	270 Win.	150	9.72	Boat-tail S.P.	210	2850	2660	2480	2300	2130	1970	2705	2355	2040	1760	1510	1290	0.7	2.7	6.3	11.6	18.9	−0.2	⊕	−3.4	−12.5	+0.7	+1.7	⊕	−7.4	−21.4	−43.0	24	P270C
[2]	P270D	270 Win.	130	8.42	Boat-tail S.P.	210	3060	2830	2620	2410	2220	2030	2700	2320	1980	1680	1420	1190	0.7	2.8	6.6	12.1	19.7	−0.2	⊕	−2.8	−10.7	+0.5	+1.4	⊕	−6.5	−19.0	−38.5	24	P270D
[2]	P7RD	7mm Rem. Magnum	150	9.72	Boat-tail S.P.	215	3110	2920	2750	2580	2410	2250	3220	2850	2510	2210	1930	1690	0.5	2.2	5.1	9.3	15.0	−0.3	⊕	−2.6	− 9.8	+0.4	+1.3	⊕	−5.9	−17.0	−34.2	24	P7RD
[3]	P7RE	7mm Rem. Magnum	165	10.69	Boat-tail S.P.	215	2950	2800	2650	2510	2370	2230	3190	2865	2570	2300	2050	1825	0.5	2.0	4.6	8.4	13.5	−0.2	⊕	−3.0	−10.9	+0.5	+1.5	⊕	−6.4	−18.4	−36.6	24	P7RE
[2]	P3006D	30-06 Springfield (7.62x63mm)	165	10.69	Boat-tail S.P.	210	2800	2610	2420	2240	2070	1910	2870	2490	2150	1840	1580	1340	0.7	2.8	6.6	12.3	19.9	−0.2	⊕	−3.6	−13.2	+0.8	+1.8	⊕	−7.8	−22.4	−45.2	24	P3006D
[2]	P3006G	30-06 Springfield (7.62x63mm)	150	9.72	Boat-tail S.P.	210	2910	2690	2480	2270	2070	1880	2820	2420	2040	1710	1430	1180	0.7	3.0	7.1	13.4	22.0	−0.2	⊕	−3.3	−12.4	+0.6	+1.7	⊕	−7.4	−21.5	−43.7	24	P3006G
[3]	P3006L	30-06 Springfield (7.62x63mm)	180	11.66	Boat-tail S.P.	210	2700	2540	2380	2220	2080	1930	2915	2570	2260	1975	1720	1495	0.6	2.6	6.0	11.0	17.8	−0.1	⊕	−3.9	−13.9	+0.9	+1.9	⊕	−8.1	−23.1	−46.1	24	P3006L
[2]	P308C	308 Win. (7.62x51mm)	165	10.69	Boat-tail S.P.	210	2700	2520	2330	2160	1990	1830	2670	2310	1990	1700	1450	1230	0.7	3.0	7.0	13.0	21.1	−0.1	⊕	−4.0	−14.4	+0.9	+2.0	⊕	−8.4	−24.3	−49.0	24	P308C
[3]	P300WC	300 Win. Magnum	200	12.96	Boat-tail S.P.	215	2830	2680	2530	2380	2240	2110	3560	3180	2830	2520	2230	1970	0.5	2.2	5.0	9.2	14.9	−0.2	⊕	−3.4	−12.2	+0.7	+1.7	⊕	−7.1	−20.4	−40.5	24	P300WC

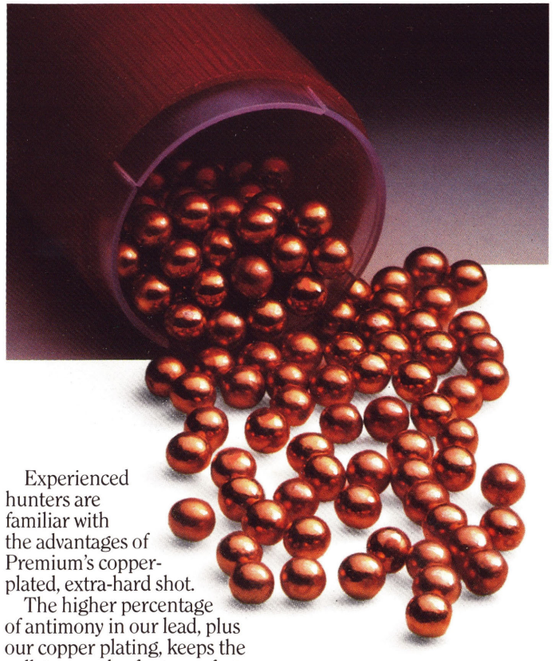
Premium Rifle Nosler Bullet Ballistics (Approximate)

Usage	Federal Load No.	Caliber	Bullet Wgt. in Grains	Bullet Wgt. in Grams	Bullet Style	Factory Primer No.	Velocity in Feet Per Second (to Nearest 10 Feet) Muzzle	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	Energy in Foot/Pounds (to Nearest 5 Foot/Pounds) Muzzle	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	Wind Drift in Inches 10 mph Crosswind 100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	Height of Bullet Trajectory in Inches Above or Below Line of Sight if Zeroed at ⊕ Yards. Sights 1.5 Inches Above Bore Line. Average Range 50 yds.	100 yds.	200 yds.	Long Range 300 yds.	50 yds.	100 yds.	200 yds.	300 yds.	400 yds.	500 yds.	Test Barrel Length Inches	Federal Load No.
[2]	P6C	6mm Rem.	100	6.48	Nosler Partition	210	3100	2830	2570	2330	2100	1890	2135	1775	1470	1205	985	790	0.8	3.3	7.9	14.7	24.1	−0.3	⊕	−2.9	−11.0	+0.5	+1.4	⊕	− 6.7	−19.8	− 29.0	24	P6C
[2]	P257B	257 Roberts (Hi-Vel. + P)	120	7.77	Nosler Partition	210	2780	2560	2360	2160	1970	1790	2060	1750	1480	1240	1030	855	0.8	3.3	7.7	14.3	23.5	−0.1	⊕	−3.8	−14.0	+0.8	+1.9	⊕	− 8.2	−24.0	− 48.9	24	P257B
[2]	P270E	270 Win.	150	9.72	Nosler Partition	210	2850	2590	2340	2100	1880	1670	2705	2225	1815	1470	1175	930	0.9	3.9	9.2	17.3	28.5	−0.2	⊕	−3.7	−13.8	+0.8	+1.9	⊕	− 8.3	−24.4	− 50.5	24	P270E
[2]	P7C	7mm Mauser (7x57mm Mauser)	140	9.07	Nosler Partition	210	2660	2450	2260	2070	1890	1730	2200	1865	1585	1330	1110	930	1.3	3.2	8.2	15.4	23.4	−0.1	⊕	−4.3	−15.4	+1.0	+2.1	⊕	− 9.0	−26.1	− 52.9	24	P7C
[2]	P280A	280 Rem.	150	9.72	Nosler Partition	210	2890	2620	2370	2140	1910	1710	2780	2295	1875	1520	1215	970	0.9	3.8	9.0	16.8	27.8	−0.2	⊕	−3.6	−13.4	+0.7	+1.8	⊕	− 8.0	−23.8	− 49.2	24	P280A
[3]	P7RF	7mm Rem. Magnum	160	10.37	Nosler Partition	210	2950	2730	2520	2320	2120	1940	3090	2650	2250	1910	1600	1340	0.8	3.3	7.7	14.1	23.4	−0.2	⊕	−3.2	−11.9	+0.6	+1.6	⊕	− 7.1	−20.7	− 42.0	24	P7RF
[2]	P7RG	7mm Rem. Magnum	140	9.07	Nosler Partition	210	3150	2920	2700	2500	2300	2110	3085	2650	2270	1940	1640	1380	0.6	2.7	6.2	11.5	18.7	−0.3	⊕	−2.6	− 9.9	+0.4	+1.3	⊕	− 6.1	−17.7	− 36.0	24	P7RG
[2]	P3030D	30-30 Win.	170	11.01	Nosler Partition	210	2200	1900	1620	1380	1190	1060	1830	1355	990	720	535	425	1.9	8.0	19.4	36.7	59.8	−0.3	⊕	−8.3	−29.8	+2.4	+4.1	⊕	−17.4	−52.4	−109.4	24	P3030D
[3]	P3006F	30-06 Springfield (7.62x63mm)	180	11.66	Nosler Partition	210	2700	2470	2250	2040	1850	1660	2910	2440	2020	1670	1360	1110	0.9	3.7	8.8	16.5	27.1	−0.1	⊕	−4.2	−15.3	+1.0	+2.1	⊕	− 9.0	−26.4	− 54.0	24	P3006F

+P ammunition is loaded to a higher pressure. Use only in firearms so recommended by the gun manufacturer.

These trajectory tables were calculated by computer using the best available data for each load. Trajectories are representative of the nominal behavior of each load at standard conditions (59°F temperature; barometric pressure of 29.53 inches; altitude at sea level). Shooters are cautioned that actual trajectories may differ due to variations in altitude, atmospheric conditions, guns, sights, and ammunition.

Federal Premium Shotgun Shells



Experienced hunters are familiar with the advantages of Premium's copper-plated, extra-hard shot.

The higher percentage of antimony in our lead, plus our copper plating, keeps the pellets rounder for truer, faster flight. That puts more pellets in your pattern while improving your downrange penetration and power. All of which makes you a better shot.

Many expert hunters prefer our copper-plated Premium over other lead shot for upland game. Premium's long range patterning and power really put the odds in your favor. And our buckshot and magnum Premium loads have a granulated plastic buffer mixed in the shot charge that further enhances long range patterning performance.

Premium shotgun shells include our plastic Triple-Plus® wad column with abrasion-preventing shot cup or, in 10 gauge, a heavy duty one-piece plastic shot cup. Federal No. 209 primers and carefully selected propellents combine for maximum power and reliability.

Turkey Facts. The largest turkey ever reported taken is an Illinois tom that tipped the scales at 33 pounds, 7 ounces.

The National Wild Turkey Federation reports that the longest wattle, or beard, on record measures 16⅞ inches.

A typical tom turkey's beard has about 600 bristles.

Premium Magnum Shotgun Shells. No other magnum made can out-perform these for dense patterning at long range. The unbeatable combination of extra-hard, copper-plated shot and our granulated plastic shot buffer means that the pellets are much less deformed as they emerge from the barrel. Their uniformity allows the pellets to better retain their velocity and deliver denser patterns with shorter shot strings.

Turkey hunters will be pleased to learn that our 12 gauge HEAVYWEIGHT™ loads, with 2 ounces of No. 4 or No. 6 shot, are available in the economical 10-round Hunters-Pak (ST 159—only available at certain times of the year).

Federal Load No.	Gauge	Shell Length Inches	Shell Length mm	Dram Equiv.	Muzzle Velocity	Shot Charge Wgt. Ounces	Shot Charge Wgt. Grams	Shot Sizes
P109	10	3½	89	4½	1210	2¼	63.78	BB,2,4,6
P159*	12	3	76	4	1175	2	56.70	BB,2,4,6
P158	12	3	76	4	1210	1⅞	53.15	BB,2,4,6
P157	12	3	76	4	1280	1⅝	46.06	4,6
P156	12	2¾	70	4	1315	1½	42.52	BB,2,4,6
P258	20	3	76	3	1185	1¼	35.44	4,6
P256	20	2¾	70	2¾	1175	1⅛	31.89	4,6

* HEAVYWEIGHT

Now in 5-round packs!

Premium Buckshot. These are the loads with patterns that stay dense farther out than any other buckshot. As an example of how well our buckshot patterns, consider our P154 load with 00 buck. From 40 yards away, it puts all 9 pellets inside a 15 inch circle—an area the size of a small hubcap. Again, copper-plated, extra-hard shot and granulated buffer, *plus* a unique method of pellet layering combine for devastating effect.

Federal Load No.	Gauge	Shell Length Inches	Shell Length mm	Dram Equiv.	Muzzle Velocity	Shot Sizes
P108	10	3½	89	Magnum	1100	18 Pellets- 00 Buck
P108	10	3½	89	Magnum	1100	54 Pellets- 4 Buck
P158	12	3	76	Magnum	1225	10 Pellets-000 Buck
P158	12	3	76	Magnum	1210	15 Pellets- 00 Buck
P158	12	3	76	Magnum	1040	24 Pellets- 1 Buck
P158	12	3	76	Magnum	1210	41 Pellets- 4 Buck
P156	12	2¾	70	Magnum	1290	12 Pellets- 00 Buck
P156	12	2¾	70	Magnum	1250	34 Pellets- 4 Buck
P154	12	2¾	70	Max.	1325	9 Pellets- 00 Buck
P154	12	2¾	70	Max.	1325	27 Pellets- 4 Buck

Premium Hi-Power Shotgun Shells. Premium Hi-Power shotgun shells are widely regarded as an expert's load for all-around hunting of pheasants and other large upland game. Their extra reach and patterning performance assures superior downrange penetration under even the most difficult of hunting conditions.

Federal Load No.	Gauge	Shell Length Inches	Shell Length mm	Dram Equiv.	Muzzle Velocity	Shot Charge Wgt. Ounces	Shot Charge Wgt. Grams	Shot Sizes
P154	12	2¾	70	3¾	1330	1¼	35.44	4,6,7½
P254	20	2¾	70	2¾	1220	1	28.35	6
P283	28	2¾	70	2¼	1295	¾	21.25	6,7½,8

Premium Field Loads. These field loads pick up where ordinary field loads quit. One advantage of extra-hard, copper-plated shot is that, in the field, these pellets ensure easier flight through vegetation and better penetration on game—with less feather draw. And, of course, the pellets are less deformed on firing, thus delivering a fuller shot pattern for better upland bird shooting.

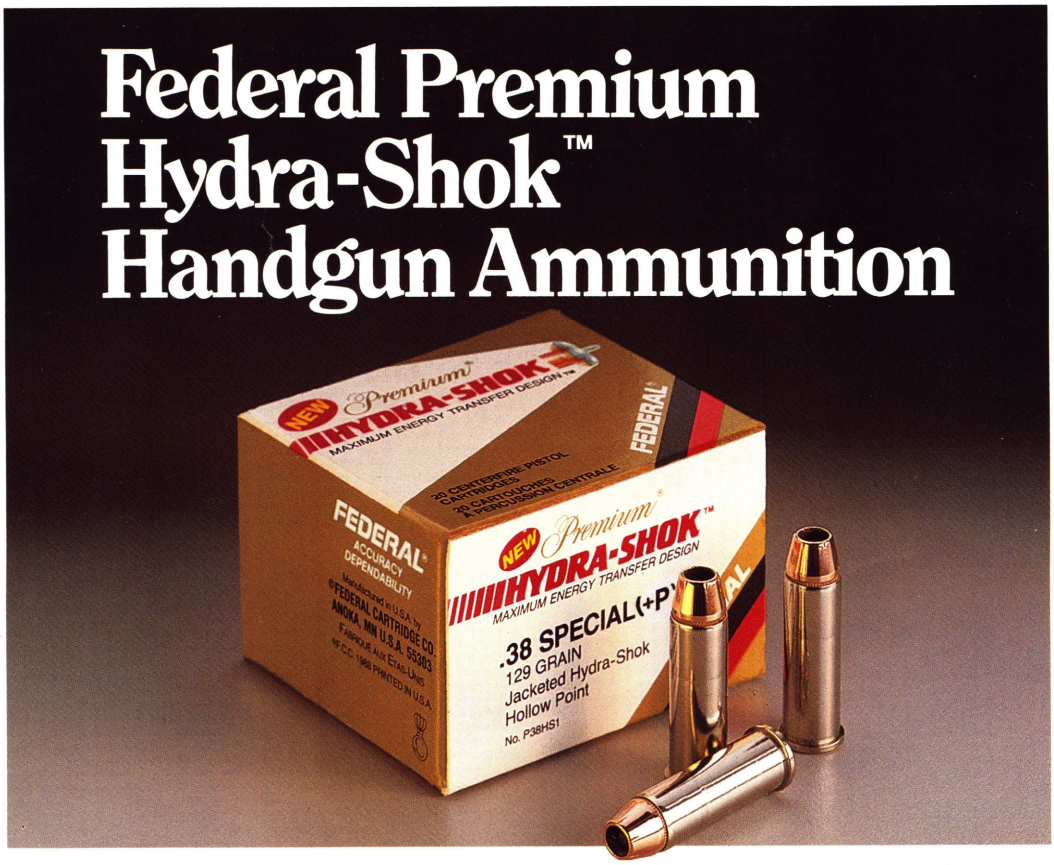
Federal Load No.	Gauge	Shell Length Inches	Shell Length mm	Dram Equiv.	Muzzle Velocity	Shot Charge Wgt. Ounces	Shot Charge Wgt. Grams	Shot Sizes
P153	12	2¾	70	3¼	1220	1¼	35.44	7½,8
P152	12	2¾	70	3¼	1255	1⅛	31.89	7½
P252	20	2¾	70	2½	1165	1	28.35	7½,8

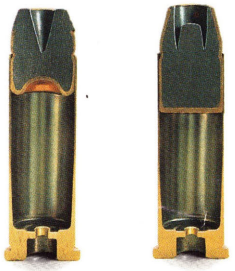
Federal Premium Hydra-Shok™ Handgun Ammunition

The Hydra-Shok bullet represents an exciting new breakthrough in hollow point handgun ammunition. This revolutionary bullet sets new standards for handgun cartridge performance.

The secret of Hydra-Shok's effectiveness is its patented jacketed hollow point design. Inside the hollow point is a tapered center post which, on impact, directs the impact forces against the inner walls of the bullet cavity. This added outward force results in the most consistent mushroom expansion of any hollow point made. And that's what makes Premium Hydra-Shok the most effective handgun ammunition you can buy.

To further enhance effectiveness, we've customized the bullet design for each caliber we offer. This ensures consistent and predictable mushrooming at all velocities. Each caliber and load is engineered and tested to provide Expansion + Penetration = Maximum Energy Transfer.





Conventional hollow point bullet

New Premium Hydra-Shok hollow point bullet

Our new Hydra-Shok loads are the first centerfire handgun cartridges qualified for the elite Premium ammunition line. The Premium name is your guarantee of the highest standards of ballistic and terminal performance.

Premium Pistol and Revolver Ballistics (Approximate)

Usage Key: 3 = Self defense

Usage	Federal Load No.	Caliber	Bullet Wgt. in Grains	Bullet Wgt. in Grams	Bullet Style	Factory Primer No.	Velocity in Feet Per Second Muzzle	25 yds.	50 yds.	75 yds.	100 yds.	Energy in Foot/Pounds Muzzle	25 yds.	50 yds.	75 yds.	100 yds.	Mid-Range Trajectory 25 yds.	50 yds.	75 yds.	100 yds.	Test Barrel Length Inches
3 NEW	P9HS1	9mm Luger (9x19mm Parabellum)	124	8.03	Hydra-Shok HP	100	1120	1070	1030	990	960	345	315	290	270	255	0.2	0.9	2.2	4.1	4
3 NEW	P9HS2	9mm Luger (9x19mm Parabellum)	147	9.52	Hydra-Shok HP	100	1050	1010	980	950	920	360	335	310	295	275	0.3	1.1	2.5	4.5	4
3 NEW	P45HS1	45 Auto	230	14.90	Hydra-Shok HP	150	850	830	810	790	770	370	350	335	320	305	0.4	1.6	3.6	6.6	5
3 NEW	P38HS1	38 Special (High Velocity +P)	129	8.36	Hydra-Shok HP	100	945	930	910	890	870	255	245	235	225	215	0.3	1.3	2.9	5.3	4-V
3 NEW	P357HS1	357 Magnum	158	10.23	Hydra-Shok HP	100	1235	1160	1104	1060	1020	535	475	428	395	365	0.2	0.8	1.9	3.5	4-V

+P ammunition is loaded to a higher pressure. Use only in firearms so recommended by the gun manufacturer. "V" indicates vented barrel to simulate service conditions.

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